

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	340	(RSSI or "signal strength" or "received signal strength" or "received signal strength indicator") same hysteresis	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 11:03
S2	176	(RSSI or "signal strength" or "received signal strength" or "received signal strength indicator") with hysteresis	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 11:08
S3	1134	hysteresis and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 11:09
S4	70	((calculat\$3 or determin\$3 or solv\$3) near3 Hysteresis) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 11:31
S5	3	((calculat\$3 or determin\$3 or solv\$3) near3 hysteresis adj factor) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 15:57
S6	41	("4675863"   "4829519"   "4972506"   "4973923"   "5091919"   "5124672"   "5231364"   "5241685"   "5301359"   "5311151"   "5345448"   "5353332"   "5357221"   "5371481"   "5392460"   "5410733"   "5412375"   "5446422"   "5469126"   "5483668"   "5524009"   "5602868"   "5655003"   "5659598"   "5678224"   "5710974"   "5731772"   "5732076"   "5768267"   "5774809"   "5809399"   "5815801"   "5845192"   "5909469"   "5924026"   "5983101"   "5991286"   "6006073"   "6023615"   "6035197"   "6091954").PN. OR ("6788952"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/19 15:08

## EAST Search History

S7	1	((calculat\$3 solv\$3) near3 (hysteresis adj (factor or margin))) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 16:03
S8	35	(calculat\$3 ) with (hysteresis) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 16:04
S9	35	((calculat\$3 ) with (hysteresis)) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 16:44
S10	2	("5995836"   "6285883").PN. OR ("6745033").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/19 16:10
S11	10	("5379446"   "5396645"   "5513246"   "5640677"   "5701585"   "5737689"   "5995836").PN. OR ("6285883").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/19 16:13
S12	16	((calculat\$3 near average) near (signal near strength)) and "455"/\$. ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 16:46
S13	2	(handoff or handover or "hand-off") same (average or mean) same ((signal adj strength) or "received signal strength" or RSSI or RSS) same ("standard deviation")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 09:08
S14	2019	(average or mean) with((signal adj strength) or "received signal strength" or RSSI or RSS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 09:09
S15	134	((average or mean) with((signal adj strength) or "received signal strength" or RSSI or RSS)) and 455/436,437,438,440,441,525.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 09:24

## EAST Search History

S16	2	((average or mean) with((signal adj strength) or "received signal strength" or RSSI or RSS) same ("standard deviation")) and 455/436,437,438,440,441,525.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 09:23
S17	2	((average or mean) with((signal adj strength) or "received signal strength" or RSSI or RSS) same ("base station") near8 ("standard deviation")) and 455/436,437,438, 440,441,525.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 10:42
S18	3	(calculat\$3) near2 (hysteresis adj (factor or margin))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 11:27
S19	906	hysteresis and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 11:28
S20	2	( cost same (hysteresis or "standard deviation") same (handover or handoff or "hand-off") ) and 455/436,437,438,440,441,525.ccls.	US-PGPUB; USPAT	OR	ON	2005/05/20 11:31
S21	112	((calculat\$3 or determin\$3 or solv\$3) same (handoff or handover or "hand-off") same cost)	US-PGPUB; USPAT	OR	ON	2005/05/20 11:33
S22	129	((calculat\$3 or determin\$3 or solv\$3) same (handoff or handover or "hand-off") same cost)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 11:33
S23	0	((calculat\$3 or determin\$3 or solv\$3) same (handoff or handover or "hand-off") same cost) same "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 11:37
S24	74	((calculat\$3 or determin\$3 or solv\$3) same (handoff or handover or "hand-off") same cost) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 11:33

## EAST Search History

S25	1	((calculat\$3 or determin\$3 or solv\$3) same (handoff or handover or "hand-off") same cost same (hysteresis near (margin or factor))) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 12:44
S26	0	hsyteresis with ("standard deviation") and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 12:45
S27	6	hysteresis with ("standard deviation") and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 12:55
S28	2	hysteresis with ("standard deviation") and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 14:28
S29	403	("base station") same (average or mean) same ("signal strength" or RSS or "received signal strength" or "received signal strength information" or RSSI)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 14:32
S30	445	("base station") same (averag\$3 or mean) same ("signal strength" or RSS or "received signal strength" or "received signal strength information" or RSSI)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 14:32
S31	147	("base station") with (averag\$3 or mean) with ("signal strength" or RSS or "received signal strength" or "received signal strength information" or RSSI)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/20 14:33
S32	7	(mobile adj (station or unit or device or apparatus or terminal)) with (handoff or handover) with (stor\$3 adj (program or instructions)) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 09:27

## EAST Search History

S33	0	(mobile adj (station or unit or device or apparatus or terminal)) with (handoff or handover) with (stor\$3 adj (program or instructions)) same (DSP or ("digital signal process\$3") or ("data adj processing")) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:05
S34	0	(mobile adj (station or unit or device or apparatus or terminal)) with (handoff or handover) with (stor\$3 adj (program or instructions)) same (DSP or ("digital signal processor") ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:06
S35	0	(mobile adj (station or unit or device or apparatus or terminal)) same (handoff or handover) same (stor\$3 adj (program or instructions)) same (DSP or ("digital signal processor") ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:06
S36	0	("computer readable medium") same (handoff or handover) same (stor\$3 adj (program or instructions)) same (DSP or ("digital signal processor") ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:07
S37	0	((("computer readable medium") same (handoff or handover) same (stor\$3 adj (program or instructions)) same (DSP or ("digital signal processor") ) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:08
S38	0	((("computer readable medium") near7 (handoff or handover) near8 (stor\$3 adj (program or instructions)) near9 (DSP or ("digital signal processor") ) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:09
S39	0	((("computer readable medium") near7 (handoff or handover) near8 (stor\$3 adj (program or instructions)) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:09
S40	0	handoff	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:09

## EAST Search History

S41	9097	handoff	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:09
S42	1	(( (computer adj readable adj medium) with (stor\$3 near (program or instructions)) with (handoff or handover) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:13
S43	1	(( (readable adj medium) with (stor\$3 near (program or instructions)) with (handoff or handover) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:13
S44	2	(( (readable adj medium) same (stor\$3 near (program or instructions)) same (handoff or handover) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 08:13
S45	0	"2003606428".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 09:28
S46	0	wo-0506781-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 11:02
S47	77	(compute or computation or computing or calculat\$3) with pathloss	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 12:28
S48	12508	(compute or computation or computing or calculat\$3) with "standard deviation"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 12:29

## EAST Search History

S49	973	(compute or computation or computing or calculat\$3) with (standard deviation) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 12:29
S50	300	(compute or computation or computing or calculat\$3) near2 (standard deviation) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 12:29
S51	165	(compute or computation or computing or calculat\$3) near (standard deviation) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 12:30
S52	56	(compute or computation or computing or calculat\$3) near ("standard deviation") and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 13:05
S53	26	(constant or "weighing factor") with ("standard deviation") and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 13:31
S54	288	("standard deviation") near2 constant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 14:29
S55	94	( ("standard deviation") same (calculat\$3 or comput\$3 or solv\$3) same (constant or weigh\$4 or factor) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 14:43
S56	11	( ("standard deviation") with (calculat\$3 or comput\$3 or solv\$3) with (constant or weigh\$4 or factor) ) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 15:56

## EAST Search History

S57	11300	(standard adj deviation) with calculat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 15:58
S58	112	S57 and (handoff hand\$5off hand\$5over)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 15:58
S59	8	(standard adj deviation) with calculat\$3 same (handoff hand\$5off hand\$5over)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 16:03
S60	5	(standard adj deviation) with comput\$5 same (handoff hand\$5off hand\$5over)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 16:11
S61	5	S60 not S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 16:04
S62	0	(standard adj deviation) with deriv\$5 same (handoff hand\$5off hand\$5over)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 16:11
S63	38	(standard adj deviation) with comput\$5 and (handoff hand\$5off hand\$5over)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 16:32
S64	4	(standard adj deviation) same comput\$5 with (handoff hand\$5off hand\$5over)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/23 16:37



## EAST Search History

S65	61	(pathloss with (measur\$3 or calculat\$3)) and "455"\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/24 10:41
S66	61	(pathloss with (measur\$3 or calculat\$3)) and "455"\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/24 10:49
S67	71	((pathloss or path\$1loss) with (measur\$3 or calculat\$3)) and "455"\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/24 10:50
S68	6	(hand\$1off hand\$1over) with (BS BTS BSS (base adj2 station)) with (hysteresis "cost function" cost) with (load distance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 07:49
S69	18	("20010022806"   "20010036820"   "20020177444"   "20040033804"   "20040058678"   "20040116133"   "5067171"   "5640676"   "5754945"   "6011974"   "6112100"   "6154657"   "6295451"   "6411662"   "6496493"   "6564057"   "6748222"   "6757550").PN. OR ("6954643").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/10 07:06
S70	6	(hand\$1off hand\$1over) with (BS BTS BSS (base adj2 station)) with (hysteresis "cost function" cost "standard deviation" variance) with (load distance TOA time\$1of\$1arrival)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 07:52
S71	0	S70 not S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 07:52
S72	22	(hand\$1off hand\$1over) with (hysteresis "cost function" cost "standard deviation" variance) with (load distance TOA time\$1of\$1arrival)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 08:27

## EAST Search History

S73	16	S72 not S70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 08:27
S74	0	(hand\$1off hand\$1over) with (hysteresis "cost function" cost "standard deviation" variance) with 455/436-445,453.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 08:28
S75	218	(hand\$1off hand\$1over) with (hysteresis "cost function" cost "standard deviation" variance) and 455/436-445,453.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 08:29
S76	106	(hand\$1off hand\$1over) with (hysteresis "cost function" "standard deviation" variance) and 455/436-445,453.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 08:29
S77	11	("5379446"   "5396645"   "5513246"   "5640677"   "5701585"   "5737689"   "5995836").PN. OR ("6285883").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/10 08:47
S78	16	(select\$3 choos\$3 chose pick\$3 chang\$3) near5 (BS BTS BSS (base adj station)) with (hysteresis (cost near2 function)) with (load distance TOA time\$1of\$1arrival)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 09:02
S79	2	(calculat\$3 determin\$5) with (adaptive adj2 hysteresis)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 09:04
S80	84	multipl\$7 with (hysteresis) with (scal\$3 factor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 09:48

## EAST Search History

S81	5	multipl\$7 with (hysteresis) with (scal\$3 factor) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 09:48
S82	11	("5119397"   "5175867"   "5241685"   "5257401"   "5420911"   "5434853"   "5499386"   "5509035"   "5542093").PN. OR ("6112093").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/10 10:01
S83	3	"adaptive hysteresis factor"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/10 10:02
S84	35	"adaptive hysteresis"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 10:49
S85	3273	petrus.in.	US-PGPUB; USPAT	OR	ON	2006/04/10 11:48
S86	47	petrus.in. and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/10 11:48
S87	7257	residual adj2 signal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:29
S88	4652	residual adj signal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:30
S89	155	residual adj signal and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:33
S90	0	(remov\$3 subtract\$3) near3 pathloss near5 ("signal strength" RSS RSSI)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:40

## EAST Search History

S91	0	(adaptive adj2 hysteresis) with pathloss	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:41
S92	0	(adaptive adj2 hysteresis) same pathloss	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:41
S93	6	hysteresis same pathloss	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:41
S94	14	("5357559"   "5546443"   "5615215"   "5878349"   "5920819"   "5924036"   "6021125"   "6081714"   "6101176"   "6131015"   "6212405"   "6317600"   "6529491").PN. OR ("6792276"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/11 09:46
S95	0	wo-0230135-\$.did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/11 09:47
S96	0	wo-230135-\$.did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/11 09:53
S97	0	DE-19612469-\$.did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/11 09:56
S98	1	se-9501183-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:56
S99	2	DE-19612469-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:59

## EAST Search History

S10 0	2	"6285883".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:59
S10 1	2	"6363252".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:59
S10 2	20	("5287544"   "5497504"   "5530917"   "5561847"   "5809430"   "5850605"   "5903843"   "6223031").PN. OR ("6363252"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/11 10:02
S10 3	0	path\$1loss with (hysteresis adj (factor or margin))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 06:52
S10 4	1	path\$1loss with hysteresis	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 06:53
S10 5	7	path\$1loss same hysteresis	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 06:54
S10 6	5	path\$1loss same "standard deviation"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 06:56
S10 7	0	(BS BTS BSS (base adj2 station)) near4 (send\$3 transmit\$4) with ((time\$1stamp\$3 broadcast) near2 message) with (TOA time-of-arrival "time of arrival") with distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:00

## EAST Search History

S108	114	(determin\$5 calculat\$3 deriv\$3) near\$5 distance with (TOA "time of arrival" time-of-arrival)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:10
S109	4	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near\$4 (comput\$3 determin\$5 calculat\$3 deriv\$3) near\$5 distance with (TOA "time of arrival" time-of-arrival) with (delay "propagation delay")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:14
S110	20	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near\$4 (comput\$3 determin\$5 calculat\$3 deriv\$3) near\$5 distance with (TOA "time of arrival" time-of-arrival)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:20
S111	12	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) with (comput\$3 determin\$5 calculat\$3 deriv\$3) near\$5 distance with (TOA "time of arrival" time-of-arrival) and "455"/\$. ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:24
S112	0	S111 not S110	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:24

## EAST Search History

S11 3	33	(comput\$3 determin\$5 calculat\$3 deriv\$3) near5 distance with (TOA "time of arrival" time-of-arrival) and "455"/456.1-456.6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:32
S11 4	26	S113 not S110	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:25
S11 5	2	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near5 (comput\$3 determin\$5 calculat\$3 deriv\$3) near5 distance with (TOA "time of arrival" time-of-arrival) same (delay "proagation delay") and "455"/456.1-456.6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:53
S11 6	0	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near5 (comput\$3 determin\$5 calculat\$3 deriv\$3) near5 distance with (TOA "time of arrival" time-of-arrival) same (time near stamp\$3) and "455"/456.1-456.6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 07:49

## EAST Search History

S11 7	0	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near5 (comput\$3 determin\$5 calculat\$3 deriv\$3) near5 distance with (TOA "time of arrival" time-of-arrival) same (time near stamp\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 09:16
S11 8	3	(comput\$3 determin\$5 calculat\$3 deriv\$3) near5 distance with (TOA "time of arrival" time-of-arrival) same broadcast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:06
S11 9	635	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near5 (calculat\$3 comput\$3 deriv\$3 determin\$5) near3 distance same (BS BTS BSS (base adj2 station))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:03
S12 0	67	S119 and (TOA "time of arrival" "time-of-arrival")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:03
S12 1	4	("3876980"   "5526357"   "5797097"   "6125275").PN. OR ("6731242").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 10:02
S12 2	11	S120 and (stamp time\$1stamp\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:04



## EAST Search History

S12 3	84	(comput\$3 determin\$5 calculat\$3 deriv\$3) near5 distance with (time near stamp\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:14
S12 4	13	(comput\$3 determin\$5 calculat\$3 deriv\$3 find\$3) near5 distance with GPS with (time near stamp\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:22
S12 5	17	(comput\$3 determin\$5 calculat\$3 deriv\$3 find\$3) with distance with GPS with (time near stamp\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:26
S12 6	4	S125 not S124	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:39
S12 7	3	(TOA "time of arrival" "time-of-arrival") with distance with GPS with (time near stamp\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:30
S12 8	0	((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near3 (select\$3 choos\$3) near5 (BS BSS BTS (base adj2 station)) near5 load and 455/453.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:31

## EAST Search History

S12 9	0	(GPS near5 clock) same ( ((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) same (BSS BTS BS (base adj2 station)) same (time near stamp\$3) same (TOA "time of arrival" "time-of-arrival")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:43
S13 0	5	(GPS near5 clock) same (time near stamp\$3) same (TOA "time of arrival" "time-of-arrival")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:53
S13 1	1613	( ((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near5 (select\$3 choos\$3) near4 (BS BTS BSS (base adj2 station)) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:00
S13 2	13	( ((wireless mobile portable cellular RF hand\$1held hand) adj (phone telephone device equipment apparatus user unit subscriber radio terminal station)) or radio\$1phone or radio\$1telephone or cell\$1phone or (terminal adj (unit equipment)) or telephone or hand\$2phone or (subscriber adj unit) or (user adj equipment) ) near5 (select\$3 choos\$3) near4 (BS BTS BSS (base adj2 station)) with load and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:38
S13 3	35	(select\$3 choos\$3) near3 (BS BTS BSS (base adj2 station)) near5 load and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:39

## EAST Search History

S13 4	31	S133 not S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 11:40
S13 5	3	(hysteresis with (RSSI "signal strength" "receiv\$3 signal strength indicator")) same (load distance) same (hand\$1off hand\$1over) and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 16:32
S13 6	18	("20010022806"   "20010036820"   "20020177444"   "20040033804"   "20040058678"   "20040116133"   "5067171"   "5640676"   "5754945"   "6011974"   "6112100"   "6154657"   "6295451"   "6411662"   "6496493"   "6564057"   "6748222"   "6757550").PN. OR ("6954643").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 16:33
S13 7	29	("4485486"   "4531235"   "4619002"   "4704734"   "4718081"   "4751725"   "4759051").PN. OR ("5067171").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 16:35
S13 8	20	("5067171"   "5239682"   "5260944"   "5280630"   "5483669"   "5666655"   "5673307"   "5701585"   "5701586"   "5870666"   "6049716"   "6163694"   "6240275"   "6337984").PN. OR ("6507740").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 16:41
S13 9	2	(hand\$1off hand\$1over) same (((base adj2 station) BS BTS "node b") near5 (load capacity)) same hysteresis and 455/436,453.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 16:47
S14 0	6	(hand\$1off hand\$1over) same (((base adj2 station) BS BTS "node b") near5 (load capacity)) same distance and 455/436,453.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 17:03
S14 1	4	S140 not S135	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 16:52
S14 2	10	(hand\$1off hand\$1over) with (load capacity) with distance and 455/436,453.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 17:06
S14 3	21	(hand\$1off hand\$1over) with (load capacity) with distance	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 17:06

## EAST Search History

S14 4	11	S143 not S142	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 17:13
S14 5	137	(hysteresis cost) same (load distance speed capacity) same (hand\$1off hand\$1over) and 455/436-445,453,522.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 17:17
S14 6	135	S145 not S143	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 17:17
S14 7	203	((base adj2 station) BTS "base station" "node b" BS) same (hand\$1off hand\$1over) same (hysteresis cost) same (load capacity traffic distance velocity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/12 07:01
S14 8	2	"20040267928".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/12 07:01
S14 9	2	"6026288".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 06:58
S15 0	7	hysteresis same (averag\$3 near5 (RSS RSSI signal\$1strength))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:38
S15 1	33	("4556760"   "4718081"   "5203010"   "5239675"   "5276906").PN. OR ("5379446").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/05 07:51
S15 2	24	("5239667"   "5379446"   "5678185"   "5701585"   "5722072"   "5722073"   "5774809").PN. OR ("5995836").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/05 08:55
S15 3	2	("5995836"   "6285883").PN. OR ("6745033").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/05 08:02
S15 4	1	hysteresis same (standard adj deviation) same (signal\$1strength RSS RSSI) same averag\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/05 08:57

## EAST Search History

S15 5	1	hysteresis same (standard adj deviation) same (signal\$1strength RSS RSSI) same averag\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:00
S15 6	2	hysteresis same (standard adj deviation) same (signal\$1strength RSS RSSI)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:00
S15 7	0	((hysteresis (ping near2 (data pong))) and (averag\$3 near5 (RSS RSSI signal\$1strength)) and (standard adj deviation)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:40
S15 8	2	((hysteresis (ping near2 (data pong))) and (averag\$3 near5 (RSS RSSI signal\$1strength)) ) .clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:40
S15 9	0	((hysteresis (ping near2 (data pong))) and (averag\$3 near5 (RSS RSSI signal\$1strength)) and (standard adj deviation)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:41
S16 0	0	((hand\$4off hand\$4over) and hysteresis and (RSS RSSI signal\$1strength) and (standard adj deviation)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:42
S16 1	1	((hand\$4off hand\$4over) and hysteresis and (RSS RSSI signal\$1strength) and averag\$3). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:43
S16 2	5	((hand\$4off hand\$4over) and hysteresis and (RSS RSSI signal\$1strength) ).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:44

## EAST Search History

S16 3	5	arraycom.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:44
S16 4	271	arraycomm.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:45
S16 5	33	S164 and (hand\$4off hand\$4over)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:46
S16 6	7	S164 and hysteresis	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/05 09:46
S16 7	12	(hysteresis (standard adj deviation)) with ((left\$1over subtract\$3 residual remain\$3) adj2 signal) and "455"/\$. ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/11 06:16
S16 8	16	("4794635"   "4914651"   "5285178"   "5473292"   "5574974").PN. OR ("6018663").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/11 06:21
S16 9	11	("4309771"   "5440614"   "5465390"   "5499395").PN. OR ("5966661"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/11 06:23
S17 0	3	(hysteresis and (signal link frequency) and (standard adj deviation) and (hand\$4off hand\$4over (hand\$3 adj (off over))) and (memory scal\$3 factor)).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/11 07:26
S17 1	0	arraycom.as. and 455/436-447.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/11 07:29
S17 2	0	arraycom.as. and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/11 07:29
S17 3	64	arraycomm.as. and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/11 07:29

## EAST Search History

S17 4	4	((hand\$4off hand\$4over (hand\$3 adj (off over))) and hysteresis and (standard adj deviation)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/11 18:51
S17 5	20	((hand\$4off hand\$4over (hand\$3 adj (off over))) and hysteresis and (standard adj deviation)) and (455/436,437,438,439,442,443,444. ccls. or 370/331,332,333.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/11 18:56
S17 6	4	("20050048978"   "20050079878"   "6597673"   "6711408").PN. OR ("7181221").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/11 19:01